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IS 8190-4 (1988): Requirement for packing of pesticides,
Part 4: Fumigants [FAD 1: Pesticides and Pesticides Residue
Analysis]



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“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
**REQUIREMENTS FOR
PACKING OF PESTICIDES**

PART 4 FUMIGANTS
(First Revision)

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Indian Standard

REQUIREMENTS FOR PACKING OF PESTICIDES

PART 4 FUMIGANTS

(First Revision)

0. FOREWORD

0.1 This Indian Standard (Part 4) (First Revision) was adopted by the Bureau of Indian Standards on 3 October 1988, after the draft finalized by the Packaging of Chemicals Sectional Committee had been approved by the Marine, Cargo Movement and Packaging Division Council.

0.2 This standard, first published in 1979, has been revised to incorporate the packing requirements for some fumigants as modified through various amendments issued subsequently. For some fumigants, the packing requirements have been suitably changed wherever new/alternative packing materials have been approved.

Since the packing requirements covered in this standard have been adopted by the Registra-

tion Committee constituted under the provisions of the Insecticides Act, 1968, this standard assumes statutory character.

0.3 The Indian Standards relating to packing referred to in this standard are listed in Appendix A.

0.4 This standard has been published in four parts. This part (Part 4) covers the requirements for packing of fumigants. The other three parts are:

Part 1 Solid pesticides

Part 2 Liquid pesticides

Part 3 Household pesticides

1. SCOPE

1.1 This standard (Part 4) covers the requirements for packing of fumigants.

1.2 This standard does not cover the packing requirements for fumigants meant for household use.

2. GENERAL REQUIREMENTS

2.1 Packs containing material up to 1 kg or 1 litre shall be further packed in corrugated fibre-board boxes [see IS : 2771 (Part 1)-1977] or wooden cases (see IS : 1503-1979) where they require transportation.

2.2 The high density polyethylene (HDPE) used in the fabrication of HDPE container or its components shall be of designation HDPE 43 BA or 42 BA or 42 BB having melt flow index (i_5) not more than 1.8 g/10 minutes (see IS : 7328-1974).

2.3 Aluminium used in the fabrication of containers shall conform to Grade 19500 of IS : 737-1986*.

*Specification for wrought aluminium and aluminium alloys, sheet and strip for general engineering purposes (third revision).

2.4 Containers of mild steel and tinplate shall also be lacquered externally to prevent rusting from outside, if not lithographed. If lithographed, top and bottom components shall be lacquered externally.

2.5 Closures provided shall be such as not to allow any materials to leak through them. These shall be pilferproof.

2.6 In case of solid fumigants, heat-sealing if applicable to containers shall be such that no powder comes out from seams during normal handling. Closures, wherever provided, shall be leak-proof.

2.7 Containers holding 5 litres or more of liquid fumigants shall be provided with a suitable pouring device with each container.

2.8 The container shall be of sturdy design and shall conform to the relevant Indian Standard.

2.9 The packing shall also conform to the Tariff Rules in force from time to time for the packing of goods falling in the category of materials of low flash point, dangerous and toxic, wherever applicable.

3. SPECIFIC REQUIREMENTS

3.1 The fumigants shall be packed in dry and clean containers as described in Table 1.

TABLE 1 REQUIREMENTS FOR PACKING OF FUMIGANTS

(Clause 3.1)

SL No.	FUMIGANT	REQUIREMENTS
(1)	(2)	(3)
i)	Ethylene dichloride-carbon tetrachloride mixture (3 : 1 v/v) (see IS : 634-1965)	Galvanized iron or mild steel containers in quantity of 100 ml, 250 ml, 500 ml, 1 litre, 5 litres, 20 litres, 25 litres or 50 litres each pack
ii)	Ethylene dibromide (see IS : 1311-1966)	Galvanized iron or mild steel containers suitably and properly lacquered from inside in quantity of 100 ml, 250 ml, 500 ml, 1 litre, 5 litres, 20 litres or 50 litres each pack
iii)	Methyl bromide (see IS : 1312-1980)	Welded low carbon steel gas cylinders conforming to IS : 7682-1985 fitted with appropriate valves conforming to IS : 3224-1979
iv)	Aluminium phosphide formulations (see IS : 6438-1980)	10, 20 or 30 tablets of 3 g each or 50 tablets/pellets of 0.6 g each shall be packed in a leak-proof, air-tight seamless extruded rigid aluminium tube. Suitable number of such tubes shall be further packed in air-tight tagger top lever lid cans. Alternatively, 334 tablets of 3 g each or 1 670 tablets/pellets of 0.6 g each shall be packed in leak-proof, air-tight seamless extruded rigid aluminium bottles (see IS : 9503-1980). Pack of 30 tablets in a tube is meant for EXPORT AND NOT FOR INTERNAL USE

APPENDIX A

(Clause 0.3)

INDIAN STANDARDS RELATING TO PACKAGING

IS:

1503-1979 Wooden packing cases (second revision)

2777 (Part 1)-1977 Corrugated fibreboard: Part 1 Corrugated fibreboard boxes (first revision)

3224-1979 Valve fittings for compressed gas cylinders excluding liquefied petroleum gas (LPG) cylinders (second revision)

7328-1974 High density polyethylene materials for moulding and extrusion

7682-1985 Welded low carbon steel gas cylinders for methyl bromide gas (first revision)

9503-1980 Aluminium bottles for packing of liquid pesticides